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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/849,866	05/04/2001	Ilya Chumakov	GENSET.15CDV1	1458	
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SALIWANCHIK LLOYD & SALIWANCHIK			ZARA, JANE J		
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2421 N.W. 41ST STREET			ART UNIT	PAPER NUMBER	
SUITE A-1 GAINESVILLE, FL 32606-6669			1635		
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Please find below and/or attached an Office communication concerning this application or proceeding.



# Application No. Applicant(s) 09/849,866 CHUMAKOV ET AL. Office Action Summary Art Unit Examiner 1635 Jane Zara -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1,704(b). **Status** 1) Responsive to communication(s) filed on 26 February 2004. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)⊠ Claim(s) <u>10-26</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 10-26 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement. **Application Papers** 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on \_\_\_\_ is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some \* c) ☐ None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. \_ 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. \_ Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6) Other: \_

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#### **DETAILED ACTION**

This Office action is in response to the communication filed 2-26-04.

Claims 10-26 are pending in the instant application.

# Response to Arguments and Amendments

### Withdrawn Rejections

Any rejections not repeated in this Office action are hereby withdrawn.

#### Maintained Rejections

Claims 10 -26 are rejected under 35 U.S.C. 112, first paragraph, because the specification is enabled for determining the presence of an insert into a vector, wherein the vector comprises a high copy number origin of replication when no insert occurs, and a low copy number origin of replication when an insert disrupts the high copy number origin of replication, and which high copy number origin of replication comprises at least one cloning site and a copy number indicator (such as strA or lacZ or the deletion constructs comprising functional lacZ, whereby a high copy number without an insert confers dark blue coloration to host cells, and confers light blue coloration when the high copy number origin of replication is disrupted by an insert and converted to a low copy number; or host cells are unable to grow in strA resistant host cells when the strA gene is present at a high copy number, but able to grow in streptomycin when an insert occurs and the high copy number origin of replication is disrupted).

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The instant specification is not enabled, however, for a method for identifying vectors containing a DNA insert comprising a vector containing a first copy number if no insert occurs and a second copy number if an insert occurs. Applicant's arguments filed 2-26-04 have been fully considered but they are not persuasive. Applicants argue that this generic method is enabled by the instant disclosure because the instant disclosure teaches a selectable marker that is sensitive to the copy number of the vector, and examples include a color based indicator (lacZ and its functional deletion constructs) or antibiotic resistance (StrA). Applicant is correct that examples are provided that allow for the determination of a change to a low copy number origin of replication from a high copy number origin of replication upon insertion of DNA into the high copy number origin of replication. Applicants also reiterate the examples provided in the disclosure that allow the detection of a switch between high and low copy number origins of replication upon insertion of DNA into a high copy number origin of replication. But that is not what is being claimed. The claims are much broader. The broad instant claims do not have the limitations of high and low copy numbers, they merely mention a first and a second copy number (this includes differences as little as two fold, and titrations by color or antibiotic concentration to discern between differences as little as two fold have not been taught in the instant disclosure). Nor do the rejected claims mention origins of replication. They simply mention copy numbers. It is unclear how these differences in copy numbers would be achieved in the absence of different origins of replications and the disruption of the high copy number origin of replication. For these

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reasons, the instant claims stand rejected for lacking enablement over the scope claimed.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Certain papers related to this application may be submitted to Art Unit 1635 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). The official fax telephone number for the Group is 703-872-9306. NOTE: If Applicant *does* submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Jane Zara** whose telephone number is **(571) 272-0765**. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader, can be reached on (571) 272-0760. Any inquiry regarding this application should be directed to the patent analyst, Katrina Turner, whose telephone number is (571) 272-0564. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

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TECHNOLOGY CENTER 1600